

CLAIMS

What is claimed is:

1. A sealed rolling bearing comprising:

an outer member formed with at least one outer raceway surface on its inner circumferential surface;

an inner member formed with at least one inner raceway surface on its outer circumferential surface, said inner raceway surface with inner raceway surface arranged opposite to the outer raceway surface;

rolling elements freely rollably contained between the outer and inner raceway surfaces; and

sealing devices arranged in an annular space formed between the outer and inner members, each of the sealing devices has sealing lips of an elastic member, the maximum height R_y or R_{max} of the surface roughness of a sliding surface of a member of a rotational side, which the sealing lips sliding contact, is limited to a value of $2.0\mu\text{m}$ or less, and the run-out of the sliding surface, normal thereto, is limited to a value of $30\mu\text{m}$ or less.

2. The sealed rolling bearing of claim 1 wherein the sealing device includes a sealing ring mounted on a member of a stationary side and a slinger mounted on a member of a rotational side, and the sealing lips forming the sealing ring sliding contact the slinger.

3. The sealed rolling bearing of claim 1 wherein the sealing device includes a sealing ring, mounted on a member of a stationary side, with side lips and a radial lip, the sealing lips directly slidingly contacts the member of a rotational side.

4. The sealed rolling bearing of claim 1 wherein the sealing device includes a sealing ring, mounted on a member of a stationary side, with a main lip and a sub lip, the main lip directly sliding contacts a sealing groove formed on a member of a rotational side, said sealing groove having a substantially U-shaped cross-section, and the sub lip slidingly contacts a ridge of the sealing groove via a small interference.

5. The sealed rolling bearing of claim 1 wherein the maximum height R_y or R_{max} of the surface roughness of the sliding surface is limited to a value of $1.2\mu m$ or less, and the run-out of the sliding surface, normal thereto, is limited to a value of $10\mu m$ or less.